

What is claimed is:

1. A urethane composition for preparing a sheet transport roll, the composition comprising: (A) a polyether polyol blend containing polytetramethyleneether glycol (PTMG) and polypropylene glycol (PPG) in a weight ratio of PTMG/PPG = 99/1 to 50/50; (B) a polyisocyanate; and (C) a chain lengthening agent, the urethane composition in a cured state having a hardness of not smaller than 40°, and a crosslinking density of 0.15 to 0.8 mmol/cm³ or an allophanate bond concentration of 0.03 to 0.07 mmol/g.
2. A urethane composition as set forth in claim 1, further comprising an ion conductive agent.
3. A urethane composition as set forth in claim 1, further comprising a plasticizer.
4. A urethane composition as set forth in claim 2, further comprising a plasticizer.
5. A urethane composition as set forth in claim 1, further comprising a hollow filler.
6. A urethane composition as set forth in claim 2, further comprising a hollow filler.
7. A urethane composition as set forth in claim 3, further comprising a hollow filler.
8. A urethane composition as set forth in claim 4, further comprising a hollow filler.

9. A sheet transport roll comprising a urethane composition as recited in claim 1 in a cured state.

10. A sheet transport roll comprising a urethane composition as recited in claim 2 in a cured state.

11. A sheet transport roll comprising a urethane composition as recited in claim 3 in a cured state.

12. A sheet transport roll comprising a urethane composition as recited in claim 4 in a cured state.

13. A sheet transport roll comprising a urethane composition as recited in claim 5 in a cured state.

14. A sheet transport roll comprising a urethane composition as recited in claim 6 in a cured state.

15. A sheet transport roll comprising a urethane composition as recited in claim 7 in a cured state.

16. A sheet transport roll comprising a urethane composition as recited in claim 8 in a cured state.

17. A sheet transport roll comprising: a shaft; and a urethane layer provided on an outer periphery of the shaft, the urethane layer being composed of a urethane composition in a cured state prepared from: (A) a polyether polyol blend containing polytetramethyleneether glycol (PTMG) and polypropylene glycol (PPG) in a weight ratio of PTMG/PPG = 99/1 to 50/50; (B) a polyisocyanate; and (C) a chain lengthening agent; the urethane composition in a cured state having a

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hardness of not smaller than 40°, and a crosslinking density of 0.15 to 0.8 mmol/cm³ or an allophanate bond concentration of 0.03 to 0.07 mmol/g.

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